



50-3170 RESIN

DESCRIPTION:

50-3170 is a high performance, thermally conductive epoxy rubber formulation designed for those applications requiring excellent electrical insulation and low stress during cure.

50-3170 can be used for bonding sensitive components or for potting of power supplies, coils, glass diodes, and other delicate assemblies. This new formulation can be used successfully for transformers, regulators, PCB's, etc...

50-3170 is an ideal resin system for encapsulation of electronic packages with low stress requirements and will not crush during and after cure. The resin has a rubber consistency and retains its properties and flexibility on long term aging. This allows pottings and castings to be probed for detection of electrical failure.

50-3170 is a repairable system. After defective components have been located, the probe path can be totally sealed by applying fresh resin with a hypodermic syringe. 50-3170 will bond to itself forming a totally sealed system.

The engineering staff at Epoxies, Etc... is at your service to answer questions about particular requirements. Sample kits are available from stock.

TYPICAL SPECIFICATIONS:

Mix Viscosity @ 25°C cps	15,000
Pot Life, 100 gram mass @ 25°C	3.00 Hrs.
Specific Gravity, 25°C	1.90
Hardness, Shore A	90
Gel time	24 Hrs.
Elongation at failure, %	24.0
Operating Temp. Range, °C	-70 to +150
Dielectric Strength, Volts/Mil	480
Dielectric Constant at 60 HZ	3.4
Volume Resistivity, OHM-CM at 25°C	1.5×10^{14}
Dissipation Factor, 60 HZ	.2
Thermal Conductivity, BTU/hr/ft ² /°F/in.	12.0

INSTRUCTIONS FOR USE:

1. Mix 4 parts 50-3170 catalyst to 100 parts 50-3170 resin by weight.
2. Cure at room temperature 24 hours or for 2-4 hours at 150 F.

1-800-EPOXIES (376-9437) • 401-946-5564 • Fax: 401-946-5526

21 Starline Way • Cranston, RI 02921 USA
www.epoxies.com • service@epoxies.com



IMPORTANT:

The information in this brochure is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.

06/03

1-800-EPOXIES (376-9437) • 401-946-5564 • Fax: 401-946-5526

21 Starline Way • Cranston, RI 02921 USA

www.epoxies.com • service@epoxies.com